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*Programs and  
Financial\* Highlights  
2000/2001*

A H F M R

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH



# WHAT IS OUR ENDOWMENT?



*The Alberta Heritage Foundation for Medical Research Endowment Fund was established in 1980 to finance the objectives of the Foundation—to establish a long-term program of medical and health research in the Province. The Fund operates under the authority of the Alberta Heritage Foundation for Medical Research Act. The initial investment was \$300 million.*



Kidney specialist

**Dr. Lee Anne Tibbles** is investigating the events triggered during organ transplantation when blood begins to circulate through the transplant. These biochemical signals may be the key to why some transplants fail. Dr. Tibbles is developing ways of inhibiting these signals, so as to improve organ function and survival.

## **How is it managed?**

The investment policy was developed over a number of years by Alberta Revenue in cooperation with AHFMR Board. The investment policy takes into account the expected conditions in the capital markets, the need for prudent investments, and a sustainable longer term spending program by the Foundation. The investment strategy under this policy is managed by the Investment Management Division of Alberta Revenue. The fund contains a diversified holding of Canadian investments along with equity investments in a number of international markets.

## **How do we decide how much we need to support our programs each year?**

AHFMR management develops long range projections, based on Trustee decisions about maintaining current programs and developing new ones. These projections reflect the cost and number of investigators for each program, related costs and the anticipated value of the endowment. Annual budgets are then developed from this long-range projection.

## **Why do actual expenditures sometimes vary from the budget?**

Budgets are based on estimates of quality and number of applications for programs and the results of the review process. Actual expenditures may vary from the budget, depending on the quality and number of applications received and approved, and the number of awards accepted. (Excellence is the primary criterion for funding proposals.) In addition, the Foundation responds to needs as they arise in the community and unforeseen opportunities may result in increased spending.



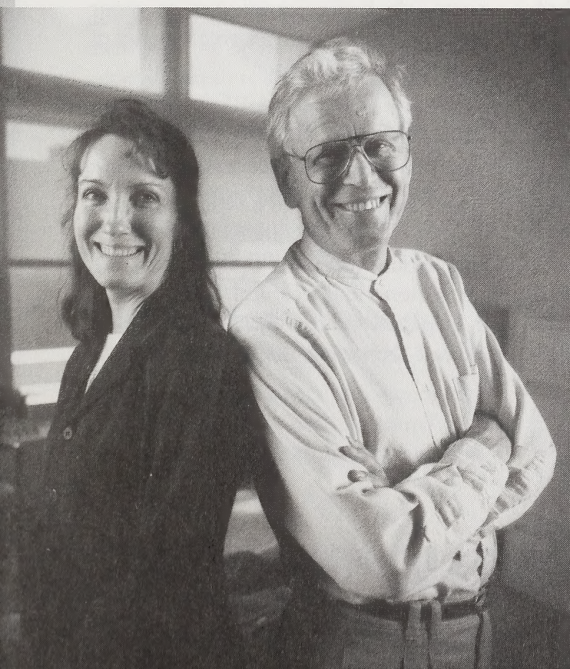
## How do we determine how much to transfer from the endowment to cover our budget?

Foundation management works with Alberta Revenue in developing long term investment forecasts and strategies to ensure sufficient cash to fund current operations, while maintaining the value of the endowment by providing sufficient reinvestment of income to ensure future commitments can be met. To provide this balance between current needs and long term goals, the Trustees have adopted a guideline for how much can be transferred each year. This guideline recognizes that annual income to the endowment could vary drastically, depending on the performance of financial markets in which investments are made. To protect the programs of research from suffering dramatic cutbacks should there be years of significant poor returns, the guideline has two components.

The suggested maximum transferable to the Foundation from the Fund in any year is 70% of the previous year's expenditures, plus 30% of 5% of the opening balance of the endowment. This is a variation of the commonly used 5% rule for endowments which states that, to fund current programs and maintain the potential to fund into the future, only 5% of the value of an endowment should be spent annually.

## What is the investment strategy for the endowment?

Due to these relatively high cash requirements to fund annual expenditures, the portfolio is structured to generate a high level of current income with a high degree of certainty. The current portfolio provides for the spending requirements plus growth to cover inflation, with a reasonable margin of safety. In order to generate this income, Alberta Revenue has developed a target asset mix for investments in short term, fixed income and equities. These investments are managed approximately 80% directly by Alberta Revenue and 20% by international and US managers.



## How is Fund performance evaluated?

The Investment Management Division Strategy Committee of Alberta Revenue regularly reviews and benchmarks asset classes, and monitors the performance of fund managers. Alberta Revenue meets regularly with Foundation management, and reports fund performance to AHFMR Trustees.



**Dr. Robin Fainsinger** runs Edmonton's regional palliative-care program, one of the most successful of its kind in Canada. This comprehensive program gives terminally ill patients access to palliative care at home or in the intensive-care units of regional hospitals, at some point during their illness.

Back pain can be incredibly painful. **Dr. Michele Crites Battie**, along with colleague **Dr. Tapio Videman**, studies the breakdown of the discs between the bones of the spine that can cause us such discomfort. She's analyzing data to help distinguish between age-related degeneration and other factors that may contribute to back pain.



# AWARD PROGRAMS OF THE FOUNDATION



**Dr. Derrick Rancourt** has established a provincial facility in Calgary that genetically engineers mice used by scientists to test many research ideas. The technology is useful for studying the causes and effects of human diseases, as well as understanding how genes work.

## **Heritage Scientists**

Heritage Scientists are internationally recognized for their scientific contributions. This award encourages the recruitment and establishment of senior medical and health scientists who provide leadership in Alberta's scientific community. It is awarded for five years and is renewable.

## **Heritage Senior Scholars**

This award assures the continued recruitment and establishment of exceptional investigators in areas relevant to medical and health research. Candidates must hold an M.D., D.D.S., D.V.M., Ph.D. or equivalent degree and have a solid record of excellence in independent research over several years as a faculty member. The candidate must also show an interest in training Alberta's future research scientists. This five-year award is non-renewable.

## **Heritage Scholars**

Candidates are investigators who have recently completed their post-doctoral research training and demonstrate the ability to initiate and conduct independent as well as collaborative research. Heritage Scholars exhibit a desire and ability in training future research scientists. This non-renewable five-year award ensures the continuing growth of Alberta's scientific community.

## **Heritage Clinical Investigators**

This award plays an important role in linking basic research to patient-based research and patient care. It allows a clinically qualified investigator, holding an M.D. or D.D.S. and full-time academic

appointments in a sponsoring institution, to acquire further research training and experience, assisted by competitively funded basic or clinical researchers. A clinical investigator must have completed two to three years of supervised medical research training. This three-year award is renewable and may be extended for another three years.

## **Heritage Population Health Investigators**

The Heritage Population Health Investigator encourages the recruitment and establishment of skilled investigators in the fields of population health, quantitative and population sciences, health services, social and behavioural sciences, and the humanities, with a view to establishing Alberta as a centre of excellence in these fields. Applicants who have recently completed post-doctoral (M.D. or Ph.D.) research training, but who have not yet established an independent research record are eligible for this three-year, renewable award, which gives investigators an opportunity to further their research experience with the aid of a mentor.

## **Independent Establishment Grants for New Investigators**

Grants are provided to new investigators who are not already funded by the Foundation, providing equipment, and material and technical assistance to help them achieve their goals and increase their research productivity.





### Heritage Fellowships

These fellowships allow qualified candidates wishing to pursue a career in medical or health-related research to acquire post-doctoral research training (full- or part-time) in an area of medical science relevant to the aims of the Foundation. Candidates must demonstrate high academic standing and research ability, and be sponsored by a faculty supervisor.

### Heritage Clinical Fellowships

This program is directed toward individuals who hold an M.D. or D.D.S. degree and have completed or are near completion of subspecialty clinical training, providing them with the opportunity to pursue a career in health related or clinical research in Alberta. Applicants must be sponsored by a faculty member who has a record of productive research and who agrees to act as supervisor for the Clinical Fellow. Applicants are required to undertake two years of full-time research.

### Heritage Health Research Career Renewal Awards

Alberta faculty members who demonstrate interest in clinical or health research are given an opportunity to acquire rigorous

training in epidemiology, biostatistics, psychosocial sciences, or clinical experimental methods and design. The program is intended to catalyze increased development of clinical and health research activities and the design of patient-based or population-oriented research in Alberta. This one-year award is renewable for a further year.

### Heritage Studentships

The Foundation provides full-time, part-time and summer Studentships in the area of medical and health research. Full-time or part-time Studentships are available for students who are either working towards health related professional degrees or who are interested in pursuing a career in medical or health related research. Summer Studentships provide the opportunity for students with exceptional academic records to participate directly in medical or health-related research in Alberta, encouraging them to consider formal training and a career in health research.

### Heritage M.D./Ph.D. Trainees

Exceptional candidates interested in pursuing a career as clinician scientists are offered the opportunity to study for the M.D. and the Ph.D. degrees simultaneously. Foundation support is complementary to the formal M.D./Ph.D. programs at the University of Alberta and the University of Calgary.

### Dr. Lionel E. McLeod Health Research Scholarship

The scholarship was established in the memory of Dr. Lionel E. McLeod, who was head of Endocrinology at the University of Alberta, Dean of Medicine at the University of Calgary, and the founding President of the Alberta Heritage Foundation for Medical

**Dr. Preston Wiley** has experienced for himself the agony of plantar fasciitis, a common foot problem that makes standing or walking difficult. The sports medicine physician is conducting a two-year study, comparing three common treatments for the malady to see which works best for patients and which is the most economical.



**Dr. Colleen Maxwell** heads a study evaluating a powerful care-needs assessment tool for Alberta's continuing-care system. The assessment tool will help community-based caregivers ensure that elderly patients are taking their medications properly, and will flag potential problem areas and instantly generate a care plan when they aren't, thus avoiding complications and perhaps re-hospitalization.



Medical student **Sara Binder** got a chance to leave the lab last summer when she worked as an AHFMR Media Fellow at CBC Radio in Calgary. Sara got first-hand experience of how a major media outlet operates, helping to generate quality coverage of cutting-edge research in Alberta.



Research from 1981-1990. The award is given each year to an outstanding student at the Universities of Alberta, Calgary, or British Columbia for full-time research that is relevant to human health.

### **Heritage Major Equipment Grants**

Grants for Major Equipment allow the university, on behalf of investigators, to purchase equipment that is essential to maintaining the high quality of research.

### **Heritage Institutional Support Programs**

Various Institutional Support programs aid Alberta's research community in accessing the most up-to-date information and technical developments in medical and health-related research. Programs such as the Heritage Visiting Lecturer and Travel Funds, Heritage Visiting Professorships, Heritage Visiting Scientists, Infrastructure Grants, as well as funding for conferences and workshops, retreats, or planning sessions provide important information and resources necessary to the continuing development of modern health research in Alberta.

### **AHFMR Technology Commercialization (TC) Program**

The Technology Commercialization program promotes the collaboration between research and industry and funds

the commercialization of medical innovations so that new technology can aid in improving healthcare. Technology Commercialization provides funding in three phases for commercially promising projects that do not fall under the mandate of agencies that traditionally fund medical research funding agencies or are not developed adequately to attract outside investors. The program also receives funding by a provincial government Medical Innovation Program grant.

### **Heritage Youth Researcher Summer Program (HYRS)**

The Heritage Youth Researcher Summer (HYRS) Program was developed and funded by AHFMR, and modeled, in part, on the on-going WISEST Summer Research Program at the University of Alberta. HYRS matches top-notch Heritage and other university researchers with exceptional Grade 11 students from around the province for a hands-on research experience, to introduce them to the research world and the many exciting careers available in the field.

### **Health Research Fund**

The Health Research Fund (HRF) is administered by AHFMR on behalf of Alberta Health and Wellness. The creation of the Health Research Fund is a direct result of a broad consultation that took place with many individual Albertans and Alberta organizations with an interest in health research. It is intended to provide funding for relevant, high quality health research across broad areas of health services research, population health research, including mental health research, and health technology assessment research. This research is essential to sustain the goals of the Health Research Agenda developed by AHFMR through the broad consultation and deliberation of its Health Research Advisory Committee.



**Dr. Peter Nguyen** is trying to identify the key molecules and synaptic interactions in the brain that help us learn new information and form enduring memories. His findings may help slow the decline of memory that is often seen with aging and in degenerative diseases of the central nervous system.



## **Heritage Community Health Research Visiting Lecturer Program**

This program assists Alberta organizations in attracting outstanding health researchers to the province. These visiting lecturers and/or consultants will broaden and enrich the research experience of investigators, administrators, and trainees by enabling them, individually or in groups, to discuss their health research with outside experts.

## **Heritage Community Health Research Travel Grant Program**

Travel Grants are intended to enhance the quality of health research in Alberta by facilitating contacts between Alberta health researchers, as well as with their national and international colleagues.

## **AHFMR Opportunity Fund**

The purpose of the AHFMR Opportunity Fund (AOF) is to provide Alberta institutions (universities and regional health authorities) with an opportunity to develop internationally competitive health research in the province. It offers partnership opportunities for research funding that are not already available through other AHFMR programs and which require a funding contribution from other partners.

## **AHFMR Challenge Offer**

The unique AHFMR Challenge Offer proposes to contribute up to \$45 million or up to the equivalent of 20%, whatever is less, of the total province-wide costs of building new health research-related facilities at the Universities of Alberta, Calgary, and Lethbridge. A stipulation of the Challenge Offer requires the universi-

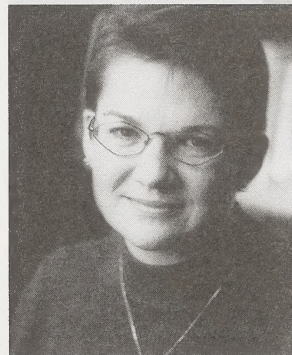
ties to successfully raise the remaining funds from other sources. It is anticipated that the Challenge Offer will disburse funds until 2004-2005.

## **Canada Research Chairs/ AHFMR Partnership**

AHFMR supports Foundation personnel who also receive Canada Research Chair funding with an incentive award equal to 30% of the net amount of the CRC Award and a contribution to the CFI component of the Chair. CRC researchers can also access matching funds for their CFI allocation through AHFMR Establishment Grants, Major Equipment or Special Initiative Grants. The AHFMR/CRC Incentive is provided to the faculty of the researcher's major appointment, where it is distributed at the discretion of the faculty and the institution, with prior disclosure to AHFMR.

## **AHFMR Research Prize**

The AHFMR Research Prize is intended to maintain and improve AHFMR Personnel awards as potent vehicles for the recruitment and retention of highly qualified internationally competitive investigators at Alberta institutions. The Research Prize is automatically awarded annually to all investigators receiving unconditional AHFMR personnel awards. The Research Prize is \$10,000 or \$20,000 annually depending on the nature of the investigator's current AHFMR award and by the number of previous AHFMR awards received.



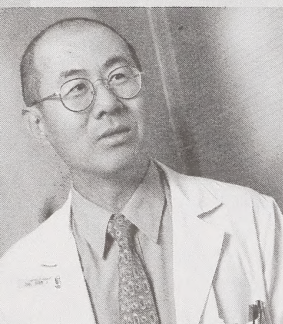
As a bioethicist, **Dr. Laura Shanner** contemplates the moral and ethical implications of new reproductive technologies. She is particularly interested in how new genetic and gestational relationships made possible by procedures such as surrogacy and sperm or egg donation affect the welfare of children and families.



# MAJOR FUNDING PARTNERS



*The Alberta Heritage Foundation for Medical Research has granted more than \$650 million to support health research in Alberta. The Foundation and the Alberta research community rely heavily on the contributions of many partners to build and sustain health research in the province. It is estimated that for every Heritage dollar invested, AHFMR researchers attract \$2-3 in outside funding.*



Pioneering research by **Dr. Sam Lee**, a specialist in liver disease, has led to a better understanding of how hyperdynamic circulation, one of the most serious complications of cirrhosis, can cause heart problems. It's a critical advance, because heart failure is a primary cause of illness and death in liver-transplant recipients.

A major funding partner in the Heritage health research enterprise in Alberta is the federal government through its major granting agencies: the Canadian Institutes of Health Research, the National Science and Engineering Research Council, the Social Sciences and Humanities Research Council, the Canadian Health Services Research Foundation, the Canadian Foundation for Innovation, and Industry Canada.

The Government of Alberta, through a number of ministries, health regions, departments, and programs, is also a significant partner in AHFMR's endeavours to develop the health research capacity provincially.

The University of Alberta, the University of Calgary, and the University of Lethbridge are key partners with AHFMR in the realization of health research excellence in the classroom, laboratory and at the bedside.

Voluntary funding agencies represent the hope of millions. Their contributions to the work of AHFMR funded researchers are helping to turn hope into realization. The Canadian Heart and Stroke Foundation, the Juvenile Diabetes Foundation, the National Cancer Institutes of Canada and others are valuable allies and agents for better health.

Pharmaceutical companies individually or through the Pharmaceutical Manufacturers Association of Canada are committed to investing in the excellence that AHFMR-funded research delivers.

International funding partners increasingly contribute to Heritage-funded research and include the Whitaker Foundation, the National Institutes of Health, the Wellcome Trust, and many other agencies.

To these partners and to all teachers, politicians, members of the media, and the public whose interest in, and support of, Heritage health research activities have helped us spread the story of AHFMR successes, we thank you and look forward to working with you in the years to come.



# AHFMR PERSONNEL AWARDS

*Currently implemented personnel as of March 31, 2000*

## Population Health Investigators

**Auld, M. Christopher, Ph.D.**  
Department of Economics,  
Faculty of Social Sciences  
University of Calgary  
*Health and the labour market*

**Brown, Lesley A., Ph.D.**  
Department of Kinesiology &  
Physical Education,  
Faculty of Arts & Science  
University of Lethbridge  
*Identifying risk factors for falls*

**Caulfield, Timothy A., LL.M.**  
Health Law Institute,  
Faculty of Law, University of Alberta  
*Legal issues in the allocation  
and utilization of genetic services:  
Regulation of the "genetech" industry*

**Cook, Linda S., Ph.D.**  
Department of Community  
Health Sciences,  
Faculty of Medicine  
University of Calgary  
*Combined hormone replacement  
therapy and the risk of breast cancer*

**Estabrooks, Carole A., Ph.D.**  
Faculty of Nursing  
University of Alberta  
*Determinants of research utilization  
in an acute clinical setting*

**Ghali, William A., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Evaluation of Hospital Mortality and  
complication rates after coronary artery  
bypass surgery in western Canada*

**Hegadoren, Kathleen M., Ph.D.**  
Faculty of Nursing  
University of Alberta  
*Depression and stress adaptation  
in women: Etiological and  
treatment-response factors*

**Hilsden, Robert J., Ph.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Gastrointestinal endoscopy in Alberta:  
regional variations and resources*

**Johnson, Jeffrey A., Ph.D.**  
Institute of Health Economics,  
Faculty of Pharmacy &  
Pharmaceutical Sciences  
University of Alberta  
*Clinical interpretability and usefulness  
of genetic health-related quality-of-life  
measures: Applications in stroke,  
congestive heart failure, and diabetes*

**Lu, Mingshan, Ph.D.**  
Department of Economics,  
Faculty of Social Sciences  
University of Calgary  
*Incentives & accountability in publicly  
funded health care: The case of mental  
health and substance abuse treatment*

**Maxwell, Colleen J., Ph.D.**  
Department of Community Health  
Sciences, Faculty of Medicine  
University of Calgary  
*Randomized trial of an integrated  
assessment and care plan approach  
for home care among a post-acute  
elderly sample*

**McAlister, Finlay A., M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Studies to enhance the application of  
efficacious therapies in cardiovascular  
disease*

**Meadows, Lynn M., Ph.D.**  
Department of Family Medicine,  
Faculty of Medicine  
University of Calgary  
*Linking experiences of  
health to population*

**Patten, Scott B., M.D., Ph.D.**  
Department of Community Health  
Sciences, Faculty of Medicine  
University of Calgary  
*Depression: Epidemiology  
and prevention*

**Smythe, James G., Ph.D.**  
Department of Economics,  
Faculty of Arts  
University of Alberta  
*Relationship between workers'  
control over their working hours  
and their health*



**Wild, T. Cameron, Ph.D.**  
Department of Public Health  
Sciences, Faculty of  
Medicine & Dentistry  
University of Alberta  
*Motivating change among  
problem drinkers*

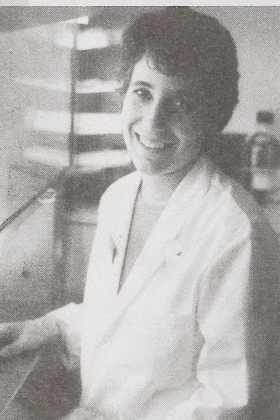
## Clinical Investigators

**Beck, Paul L., M.D., Ph.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*The role of TGF beta in intestinal  
epithelial function in health and  
disease*

**Chan, K. Ming, M.D.**  
Division of Physical Medicine &  
Rehabilitation and Neuroscience  
Faculty of Medicine & Dentistry  
University of Alberta  
*Interventions to rescue the decline of  
human whole muscle and motor unit  
function in aging, post-polio syndrome  
and amyotrophic lateral sclerosis*

**Dr. Paul Mobit** is one of only 18 medical physicists in Alberta. He is developing a treatment-planning system to accurately calculate radiation doses for patients undergoing cancer treatment. His goal is to maximize the radiation dose delivered to the tumour and minimize the amount absorbed by normal tissue.





**Dr. Deborah Burshtyn's** interest lies in how the immune system destroys tumour cells and virus-infected cells. This is essential basic research that could one day lead to more selective immunosuppressive drugs that counter these destructive cells, yet leave a patient's immune system intact.

**Coppes, Max J., M.D.**  
Department of Oncology,  
Faculty of Medicine  
University of Calgary  
*In vivo brain GABA and glutamate  
in mood and anxiety disorders*

**Coupland, Nicholas J., M.D.**  
Department of Psychiatry,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Flumazenil in panic disorder  
and agoraphobia*

**Demchuk, Andrew M., M.D.**  
Department of Clinical  
Neurosciences, Faculty of Medicine  
University of Calgary  
*Developing application for  
transcranial doppler to improve  
treatment of acute stroke*

**Exner, Derek V., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Risk estimation following infarction,  
non-invasive evaluation (REFINE)*

**Hao, Chunhai (Charlie), M.D.**  
Department of Laboratory  
Medicine & Pathology,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Activation of glioma and microglia  
Th1 cytokine pathways to enhance  
anti-glioma immunity*

**Hildebrand, Kevin A., M.D.**  
Department of Surgery,  
Faculty of Medicine  
University of Calgary  
*Post-traumatic joint contractures:  
molecular mechanisms and  
development of an animal model*

**Le Melleo, Jean-Michel, M.D.**  
Department of Psychiatry,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Influence of administration of female  
gonadal hormones on panic symptoms  
induced by pentagastrin in female  
panic disorder patients*

**Michelakis, Evangelos D., M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Oxygen sensing in chronic hypoxic  
pulmonary hypertension: Evidence  
for a redox based oxygen sensor*

**Murray, Allan G., M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*The function of CD95 (fasR or APO-1)  
expressed on vascular endothelial cells*

**Muruve, Daniel A., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Biology of chemokine expression  
in adenoviral gene therapy*

**Power, Christopher N., M.D.**  
Department of Clinical  
Neurosciences,  
Faculty of Medicine  
University of Calgary  
*Molecular mechanisms of HIV-1  
envelope mediated neurodegeneration*

**Salo, Paul T., M.D.**  
Department of Surgery,  
Faculty of Medicine  
University of Calgary  
*Neurobiology of joint aging  
and degeneration*

**Tibbles, Lee Anne, M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Role of stress-responsive kinases  
in endothelial adhesion*

**Vliagoftis, Harissios, M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Intercellular interactions in asthma:  
Mast cell mediators regulate epithelial  
eosinophil interactions*

**Wanke, Irene E., M.D., Ph.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Regulation of hepatic gene  
expression in diabetes mellitus*

**Winston, Brent W., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*The regulation of IGF-1 gene  
transcription and its potential  
role in fibrotic lung disease*

## Scholar

**Anderson, Todd J., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Endothelial function and  
coronary intervention*

**Andrew, Susan E., Ph.D.**  
Department of Medical Genetics,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Mouse models of genomic instability*

**Barry, Michele M., Ph.D.**  
Department of Medical  
Microbiology & Immunology,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Poxvirus anti-apoptotic strategies*

**Beaulieu, Christian, Ph.D.**  
Department of Biomedical  
Engineering, Faculty of  
Medicine & Dentistry  
University of Alberta  
*Magnetic resonance investigation  
of cerebrovascular disease*

**Bennett, David J., Ph.D.**  
Division of Neuroscience,  
Faculty of Rehabilitation Medicine,  
University of Alberta  
*Recovery of motoneuron  
function after CNS injury*

**Berthiaume, Luc, Ph.D.**  
Department of Cell Biology,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Dynamic protein palmitoylation  
in cellular signalling and targeting*

**Braun, Andrew P., Ph.D.**  
Department of Pharmacology &  
Therapeutics, Faculty of Medicine  
University of Calgary  
*Molecular analysis of Ca<sup>2+</sup>-activated  
K<sup>+</sup> channel structure and function*

**Bray, Robert C., M.D.**  
Department of Surgery,  
Faculty of Medicine,  
University of Calgary  
*Vascular and mechanical  
adaptations after surgery*

**Brook, William J., Ph.D.**  
Department of Biochemistry &  
Molecular Biology,  
Faculty of Medicine  
University of Calgary  
*Molecular mechanisms  
of limb development*



**Brown, Christopher B., M.D.**  
Department of Medicine,  
Faculty of Medicine  
University of Calgary  
*Complexes and complexities:  
Studies of the receptor for the  
hematopoietic cytokine GM-CSF*

**Buchanan Lori L., Ph.D.**  
Department of Psychology,  
Faculty of Science  
University of Alberta  
*Phonological processing in  
language-impaired populations*

**Burshtyn, Deborah N., Ph.D.**  
Department of Medical  
Microbiology & Immunology,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Inhibitory receptors of  
the immune system*

**Casey, Joseph R., Ph.D.**  
Department of Physiology,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Mechanism and interactions  
of anion exchange proteins*

**Coorssen, Jens R., Ph.D.**  
Department of Physiology &  
Biophysics, Faculty of Medicine  
University of Calgary  
*Identifying membrane constituents  
essential to Ca<sup>2+</sup>-triggered  
exocytosis*

**Davidge, Sandra T., Ph.D.**  
Department of Obstetrics &  
Gynaecology, Faculty of  
Medicine & Dentistry  
University of Alberta  
*Sex steroids and vascular function*

**Davies, H. Dele, M.D.**  
Department of Microbiology  
& Infectious Diseases,  
Faculty of Medicine  
University of Calgary  
*Streptococcus agalactiae surface  
in immunogenic protein (SIP)  
antibody-related studies in  
women and infants*

**Francis, Gordon A., M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Novel therapeutic strategies in  
atherosclerosis: HDL-mediated  
cellular cholesterol efflux*

**Frayne, Richard, Ph.D.**  
Department of Clinical  
Neurosciences,  
Faculty of Medicine  
University of Calgary  
*Endovascular MR system  
for stroke therapy*

**Glerum, D. Moira, Ph.D.**  
Department of Medical  
Genetics, Faculty of  
Medicine & Dentistry  
University of Alberta  
*Synthesis and assembly of  
cytochrome oxidase*

**Glover, J.N. Mark, Ph.D.**  
Department of Biochemistry,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Structure basis of the association  
and nucleic acid binding of  
transcription factor complexes*

**Grundy, Paul E., M.D.**  
Molecular Oncology,  
Cross Cancer Institute  
*Identification and assessment  
of pathological significance of  
additional Wilms' tumour loci*

**Hasan, Shahib U., M.D., Ph.D.**  
Department of Paediatrics,  
Faculty of Medicine  
University of Calgary  
*Control of breathing during  
perinatal period*

**Heslip, Timothy R., Ph.D.**  
Department of Biochemistry  
& Molecular Biology,  
Faculty of Medicine  
University of Calgary  
*In vivo role of proteoglycans  
and glycosaminoglycans in  
growth factor signalling*

**Kavanagh, Katherine M., M.D.**  
Department of Medicine,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Importance of alterations  
in the passive properties of  
myocardial conduction*

**Kieffer, Timothy J., Ph.D.**  
Department of Medicine  
Faculty of Medicine & Dentistry  
University of Alberta  
*Leptin regulation of beta-cell  
function and glucose homeostasis*

**Kleim, Jeffrey A., Ph.D.**  
Department of Psychology &  
Neuroscience,  
Faculty of Arts & Sciences  
University of Lethbridge  
*Neural mechanisms underlying  
recovery from stroke*

**Korbutt, Gregory S., Ph.D.**  
Department of Surgery,  
Faculty of Medicine & Dentistry  
University of Alberta  
*Neonatal porcine islet grafts  
for human transplantation:  
Promoting in vitro growth and co-  
transplantation with Sertoli's cells*

**Kumar, Rakesh, Ph.D.**  
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Microbiology & Immunology,  
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*Design and evaluation of novel  
antiviral agents for human  
immunodeficiency virus and  
herpes virus infections*

**Lakey, Jonathan R., Ph.D.**  
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*Novel approaches to preparation  
and cryopreservation of human  
islets for transplantation*

**Lee, Ki-Young, Ph.D.**  
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& Anatomy,  
Faculty of Medicine  
University of Calgary  
*Regulation of neuronal  
Cdc2-like kinase and its  
role in brain pathology*

**Lehner, Richard, Ph.D.**  
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University of Alberta  
*Triacylglycerol synthesis*

**Light, Peter E., Ph.D.**  
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*Cardiac Katp channels:  
Novel mechanisms of regulation  
and cardioprotection*

**Logan, C. Cairine, Ph.D.**  
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Anatomy, Faculty of Medicine  
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*Molecular mechanisms of hindbrain  
sensory nervous system development*

**MacMillan, Andrew M., Ph.D.**  
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*Mechanistic Investigations  
of RNA processing reactions*

**MacNaughton, Wallace K., Ph.D.**  
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University of Calgary  
*Mechanisms of acute radiation-  
induced intestinal dysfunction*

**Madsen, Karen L., Ph.D.**  
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*Role of bacteria in modulating intestinal  
permeability and inflammation  
in the IL-10 gene deficient mouse*

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*MHC Class I genes of the  
duck: polymorphism and  
modulation by viruses*

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*Antigen processing genes  
in ankylosing spondylitis*

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*Molecular mechanisms  
of visual system development*

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*Immune response to *Cryptococcus  
neoformans* in AIDS*

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*Photodynamic therapy (PDT)  
of urological malignancies*



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*Age-dependent determinants  
of memory function and  
synaptic plasticity*

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*Molecular mechanisms  
of eosinophil rolling*

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*Structure-based mechanisms of  
cytosolic chaperonins and viru-  
lence-associated surface proteins*

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*Regulation of neuronal survival  
and axonal growth sphingolipids*

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*Mechanisms regulating cerebral  
blood flow in young and aged  
humans*

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*Influence of cellular energetics  
on myosin heavy chain expression  
in skeletal muscle*

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*An ecological perspective on capac-  
ity building for population health*

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*Novel serine proteinases in mam-  
malian implantation: Investigating  
function and therapeutics*

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*Role of the SRC-family  
protein-tyrosine kinase,  
HCK in hematopoietic cells*

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Dentistry, University of Alberta  
*Ethics, law, and policy of  
reproduction: promoting the  
health of women and children*

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University of Alberta  
*Effects of mood stabilizers  
on the phosphoinositol cycle  
in bipolar disorder*

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*Control of DNA replication and  
genome stability during gametogenesis*

**Surette, Michael G., Ph.D.**  
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& Infectious Diseases,  
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*Biochemistry and physiology  
of signal transduction in bacteria*

**Swain, Mark G., M.D.**  
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*Fatigue in experimental cholestasis*

**Tielemans, Dirk P., Ph.D.**  
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*Computational studies  
of biological membranes*

**Tse, Frederick W., Ph.D.**  
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*Control of exocytosis by  
intracellular messengers*

**Underhill, Darrell A., Ph.D.**  
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*Genetic and biochemical analyses  
of the transcription factor Pax3*

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*Molecular basis of lymphatic pump-  
ing: modulation by the endothelium,  
vessel filling and inflammation*

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*Regulation of EGF receptor  
endocytosis by signalling proteins*

**Wevrick, Rachel, Ph.D.**  
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*Organization and regulation of  
imprinted genes on proximal  
human chromosome 15*

**Wilman, Alan H., Ph.D.**  
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Engineering, Faculty of  
Medicine & Dentistry  
University of Alberta  
*Detection of vascular pathology  
with transient 3D magnetic  
resonance angiography*

**Woodman, Richard C., M.D.**  
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Faculty of Medicine  
University of Calgary  
*Human neutrophil leukosialin  
(CD43): characterization and  
functional significance of shedding*

**Zamponi, Gerald W., Ph.D.**  
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Therapeutics, Faculty of Medicine  
University of Calgary  
*Molecular determinants of  
calcium channel pharmacology*

**Zimmerly, Steven J., Ph.D.**  
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Sciences, Faculty of Science  
University of Calgary  
*Characterization of a reverse tran-  
scriptase encoded by a Group II intron*

## Senior Scholarship

**Agellon, Luis B., Ph.D.**  
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Faculty of Medicine & Dentistry  
University of Alberta  
*Regulation of plasma and  
bile lipid homeostasis*

**Buchan, Alastair M., M.D.**  
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Neurosciences,  
Faculty of Medicine,  
University of Calgary  
*Neuroprotective efficacy of BDNF  
and GDNF in vivo: A molecular  
characterization*

**Burke, Brian, Ph.D.**  
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Anatomy, Faculty of Medicine  
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*Structure and function of  
nuclear pore complex proteins*

**Carriere, Keumhee C., Ph.D.**  
Department of Mathematical  
Sciences, Faculty of Science  
University of Alberta  
*Biostatistical advancements  
in medical and health research*

**Chen, Sui R. (Wayne), Ph.D.**  
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Biophysics, Faculty of Medicine  
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*Structure, function and regulation  
of ryanodine receptors*

**Cole, William C., Ph.D.**  
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*Structure-function relations  
of voltage-gated K<sup>+</sup> channels  
in vascular smooth muscle*

**Deans, Julie R., Ph.D.**  
Department of Biochemistry  
& Molecular Biology,  
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*Investigation into the role of lipid  
microdomains in B-cell receptor  
signalling and CD20 function*

**Donaldson, Cameron, Ph.D.**  
Department of Community  
Health Sciences,  
Faculty of Medicine  
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*Creation of health economics  
programme of research at the  
University of Calgary*

**Duszyk, Marek, Ph.D.**  
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*Regulation of human airway  
epithelial ion channels by nitric  
oxide*



**Easton, Paul A., M.D., Ph.D.**  
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*Respiratory muscle compensation,  
during REM sleep and wakefulness,  
with diaphragm paralysis or spinal  
cord injury*

**Ellison, Michael J., Ph.D.**  
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*The role of ubiquitin dependent  
proteolysis in cell proliferation*

**Gillis, Anne M., M.D.**  
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*Spatial and temporal heterogeneity  
of repolarization in hypertrophy  
and congestive heart failure*

**Greer, John J., Ph.D.**  
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*Diaphragm-phrenic nerve development  
and the pathogenesis of congenital  
diaphragmatic hernia (CDH)*

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Infectious Diseases,  
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*Molecular mechanisms of  
cytoadherence in malaria*

**Hobman, Tom C., Ph.D.**  
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*Role of the capsid protein in rubella  
virus replication. Characterization of  
GERp95 and related proteins.*

**Holmes, Charles F., Ph.D.**  
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*Regulation of protein phosphatases -  
1 and -2A by natural product toxins  
and reversible phosphorylation*

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*TCR-activated CD8 binding in  
T-cell adhesion and response*

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*Structure and regulation  
of smooth muscle*

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*Clinical trial of islet transplantation  
in Type 1 diabetes with developmental  
studies on immunosuppression &  
tolerance development*

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*Cirrhotic cardiomyopathy:  
Its causes and consequences*

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*DNA dependent protein kinase in DNA  
repair, viral infection and apoptosis*

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*Vasomotor mechanisms of renal  
afferent and efferent arterioles*

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*Control of chondrocyte differentiation  
by Raf signaling*

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*Molecular physiology of  
sodium-channel exchange*

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*Intestinal permeability and inflamma-  
tory bowel disease*

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*Regulation of ARF-dependent assembly  
of coat proteins*

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*Biology of eosinophil-derived cytokines  
and their contribution to immune and  
inflammatory reactions*

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*Delineating processes of comforting*

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*Eicosanoids in perinatology*

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*Contribution of accessory molecules  
to lymphocyte activation*

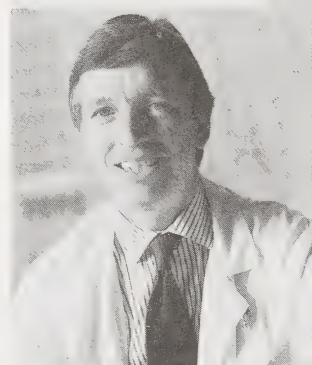
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*Regulation of growth in transformed  
and senescing cells*

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*T-cell tolerance versus genetic resistance  
to spontaneous autoimmune diabetes*

**Schultz, Michael C., Ph.D.**  
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*Molecular regulation of transcription  
and chromatin assembly in yeast*

**Schulz, Richard, Ph.D.**  
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*Physiological and pathophysiological  
roles of nitric oxide and peroxynitrite  
in the heart*

**Sharkey, Keith A., Ph.D.**  
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Biophysics, Faculty of Medicine  
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*The effects of inflammation  
on the enteric nervous system*



A serendipitous conversation between rheumatologist **Dr. Liam Martin** and attention deficit disorder (ADD) specialist **Dr. Bonnie Kaplan** (not shown here), led to the development of a study that will test whether a particular nutritional supplement can bring relief to fibromyalgia patients. If it works, the research team will try to identify the active ingredients.





**Dr. Karen Madsen** is testing a protective paste of "good" bacteria to plug tiny holes in the gut. If the mixture works, it could help soothe the debilitating effects of inflammation caused by Crohn's disease.

**Shibuya, Ellen K.,** Ph.D.  
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*Signal transduction and cell  
cycle re-entry in oocytes*

**Smith, Francine G.,** Ph.D.  
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*Are renal effects of nitric oxide  
developmentally regulated?*

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*RNA polymerase II modifications  
and transcription regulation during  
virus infection*

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*Molecular genetic dissection  
of the RAS signalling pathway*

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*Cellular and molecular mechanisms  
underlying target cell selection.  
Specific synapse formation in  
a model system.*

**Tredget, Edward E.,** M.D.  
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*Molecular basis of fibroproliferative  
disorders of the skin: Role of trans-  
forming growth factor beta and  
Th1/Th2 lymphokines*

**Tse, Amy M.W.,** Ph.D.  
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*Neuroendocrine control of stress and  
reproductive hormone secretion*

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*Soma-dendritic interactions  
in oscillatory discharge*

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*Determinants of spinal degenerative  
findings: A methodologic and epidemi-  
ologic investigation with twins using  
MPI & DEXA*

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*Identification of the molecular basis  
of iridogoniodygenesis anomaly*

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*Optimization of the survival  
of transplanted human pancreatic  
islets of langerhans*

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*Molecular dynamics of transport  
through the nuclear pore complex*

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*Mechanisms of process extension and  
myelin formation by oligodendrocytes*

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*Investigation of mammalian  
CAP and CAP2*

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*Does diabetes mellitus  
target ganglion neurons?*

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*Molecular basis of hypoxic pulmonary  
vasoconstriction: Identification of volt-  
age-gated potassium channels and  
oxygen sensors in pulmonary artery  
smooth muscle cells*

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*Pathways to cell mediated cytotoxicity*

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*Signal transduction by bioactive lipids*

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*Molecular and cellular analysis  
of neuronal plasticity*

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*Regulation of growth and development  
of rat sympathetic neurons in vitro*

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*Neuromodulation in CNS*

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*Regulation of expression of the  
ether-a-go-go potassium channel*

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*Temporal coding in auditory cortex.  
Effects of maturation and induced  
plastic changes*

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*DQ transgenic mice and MHC  
class II tetramers: Tools to characterize  
human T-cell responses in autoimmune  
diabetes*

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*Regulation and characterization  
of the NA<sup>+</sup>/H<sup>+</sup> Exchanger*



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*Structure, function and regulation of ion channels*

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*Src-family kinases: Function, regulation, and involvement in cancers*

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*Molecular genetics of paediatric neurodegenerative and metabolic diseases*

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*Synaptic and non-synaptic control of neuronal excitability*

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*Genetic and molecular analysis of *C. elegans* development*

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*Development of the digestive tract of the nematode *caenorhabditis elegans**

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*Calreticulin and endoplasmic reticulum signalling*

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*Physiological and pharmacological studies of peptides in brain*

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*Sensory control of movement*

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*Immunopathogenesis and immunopathology of type 1 diabetes*

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*Neural mechanisms controlling breathing*

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*Structure and function of the retinal rod Na-Ca+K exchanger and guanylyl cyclase*

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*Transferrin receptor-mediated iron acquisition in pathogenic bacteria*

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*Structure function relations of alveolar and airway surfactant*

**Taylor, Diane E., Ph.D.**  
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*Genetic studies of bacterial plasmids, campylobacter and helicobacter*

**ter Keurs, Henk E., M.D., Ph.D.**  
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*Cardiac muscle function in normal and diseased heart*

**Tyberg, John V., M.D., Ph.D.**  
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*Cardiac, pulmonary, and vascular determinants of left ventricular filling*

**Vance, Dennis E., Ph.D.**  
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*Phosphatidylcholine metabolism and function*

**Vogel, Hans J., Ph.D.**  
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*NMR studies of regulatory and metal ion binding proteins*

**Wallace, John L., Ph.D.**  
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*NSAID-induced gastroenteropathy: pathogenesis and prevention*

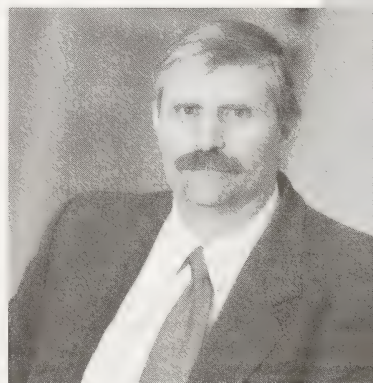
**Walsh, Michael P., Ph.D.**  
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*Regulation of smooth muscle contraction by protein kinase C and the thin filament-associated protein, calponin*

**Weiss, Samuel, Ph.D.**  
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*Neurogenesis by central nervous system stem cells*

**Wong, Norman C.W., M.D.**  
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*Regulation of apolipoprotein AI gene expression*

**Yoon, Ji-Won, Ph.D.**  
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*Cellular & molecular pathogenic mechanisms of Type 1 diabetes and its possible intervention*

**Young, James D., Ph.D.**  
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*Molecular physiology of nucleoside and amino acid transporter proteins*



One question being studied by Lethbridge researchers **Dr. Paul Hasselback** and **Dr. Chris Armstrong-Esther** (not shown here) is how families and caregivers will decide what care we need and how we'll get it when we grow old. The information this study yields will be valuable in planning Alberta's home-care services and support for seniors.



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*\*Denotes members  
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# AHFMR APPLIED HEALTH RESEARCH ADVISORY COMMITTEE

## 2000/2001 Membership

\*Denotes members who started after April 1, 2000 and before March 31, 2001

### Alberta Consultative Health Research Network

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**Rev. Norman Lentz**  
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**\*Dr. Trish Reay**  
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Montreal Children's  
Hospital

**\*Sandra Doze**  
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**Dr. Richard Musto**  
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**Dr. John Reddon**  
Alberta Hospital  
Edmonton

**Dr. John Remmers**  
University of Calgary

**Dr. Wendy Ungar**  
Hospital for Sick  
Children, Toronto, ON

**\*Brenda Waye-Perry**  
Alberta Health and  
Wellness

## PROVINCIAL, NATIONAL AND INTERNATIONAL AWARDS

### Won by AHFMR supported researchers

**Dr. Todd Anderson**  
Top 40 under 40 award in  
Canada for his innovative  
approach to cardiovascular  
medical education and  
research

**Watanabe Distinguished  
Achievement Award for  
Overall Excellence**

**Dr. Chris Bleackley**  
The Robert L. Noble Prize

**Dr. Alastair Buchan**  
Smith Distinguished  
Achievement Award for  
Outstanding Contributions  
by Senior Faculty Members

**Dr. Dele Davies**  
Watanabe Distinguished  
Achievement Award for  
Overall Excellence

**Dr. Cam Donaldson**  
Mamoru (Mo) Watanabe  
Lecturer, U of C

**Chris Ford**  
NeuroScience Canada  
Alberta Award

**Dr. Cy Frank**  
Smith Distinguished  
Achievement Award for  
Outstanding Contributions  
by Senior Faculty Members

**Dr. William Ghali**  
Cochrane Distinguished  
Achievement Award for  
Excellence in Research

**Dr. Mike Gibbins**  
National Post/Royal Bank  
Leaders in Management  
Education Award

**Dr. Royston  
Greenwood**  
U of A Killam Annual  
Professorship

**Dr. Gerald Haubi**  
Petro-Canada Young  
Innovators Award

**Dr. Bob Hinings**  
Kaplan Award

**Dr. Stefan Judex**  
Young Investigator Award,  
American Society for Bone  
and Mineral Research  
John Haddad Young  
Investigator Award

**Dr. Norman  
Kneteman**  
Outstanding Leadership  
in Alberta Science  
2000 Smart City Award  
Economic Development  
Edmonton Chairman's Award  
Salute to Excellence Award of  
Distinction, City of Edmonton

**Dr. Gregory Korbust**  
2001 Chairman's Award of  
Excellence, Economic  
Development Edmonton  
2000 Smart City Award  
2000 ASTech Award  
Popular Science Magazine  
"Best of What's New Award"  
in Medical Technology

**Dr. Paul Kubes**  
Smith Distinguished  
Achievement Award for  
Outstanding Contributions  
by Senior Faculty Members

**Dr. Karen Madsen**  
2000 Joe Doupe Young  
Investigator Award

**Brian Mark**  
CIHR Next Generation Award

**Dr. Paul Mobit**  
2001 Petro Canada Young  
Innovator Award

**Nicki Ottenbreit**  
(Graduate Student)  
Ralph Steinhauer Award of  
Distinction

**Dr. Scott Patten**  
Petro-Canada Young  
Innovator Award in  
Community Health

**Dr. Chris Power**  
Royal College Medal in  
Medicine

**Cochrane Distinguished  
Achievement Award for  
Excellence in Research**

**Yeeman Ramtohol**  
Young and Pre-Doctoral  
Investigator Award  
Best Graduate Student  
Poster Award

**Dr. Derrick  
Rancourt**  
Canadian Hunter Young  
Innovator Award

**Dr. Linda  
Reha-Krantz**  
YWCA of Edmonton 2000  
Tribute to Women of  
Distinction Award in  
Science & Technology

**Dr. Karl Riabowol**  
President's Circle Award for  
Excellence in Research

**Dr. Stephen  
Robbins**  
Watanabe Distinguished  
Achievement Award for  
Overall Excellence

**Davide Salina**  
William H. Davies Award for  
Medical Research

**Dr. Pere Santamaria**  
Canadian Diabetes  
Association, Great West  
and London Life Young  
Scientist Award

**Cochrane Distinguished  
Achievement Award for  
Excellence in Research**

**Dr. Keith Sharkey**  
Smith Distinguished  
Achievement Award for  
Outstanding Contributions  
by Senior Faculty Members

**Dr. Mike Surette**  
Canadian Society of  
Microbiologists 2000  
Fisher Award

**Dr. Diane Taylor**  
Killam Annual Professorship

**Dr. Peter Tiessen**  
Fellow of the Society of  
Management Accountants

**Carrie Tobolski**  
NeuroScience Canada  
Foundation Harley and  
Becky Hotchkiss Alberta  
Student Award

**Dr. Isabelle  
Villemure**  
Award for Best Presentation  
in fundamental research -  
International Research  
Society on Spinal Deformities  
J.H. Stewart Ried Memorial  
Fellowship Trust - Canadian  
Association of University  
Teachers

**Dr. John Wallace**  
President's Circle Award for  
Excellence in Research

**Dr. Mike Walter**  
Cogan Award of the  
Association for Research  
on Vision and Ophthalmology

**Noreen Willows**  
Izaak Walton Killam  
Postdoctoral Fellow

**Dr. V. Wee Yong**  
Cochrane Distinguished  
Achievement Award for  
Excellence in Research

**Dr. Gerald Zamponi**  
Merck Forst Young  
Investigator Award,  
Canadian Society for  
Pharmacology  
Watanabe Distinguished  
Achievement Award for  
Overall Excellence



# SUCCESS RATES

## FOR TRAINEE AND RESEARCHER COMPETITIONS 2000/2001

*The results are expressed as number of applications received/number of applications approved; followed by the percentage of successful applicants.*

COMPETITION	2000-2001	
CLINICAL INVESTIGATORS (NEW)	5/4	80%
CLINICAL INVESTIGATORS (RENEWAL)	3/2	67%
SCHOLAR (NEW)	36/19	53%
SCHOLAR (CLINICAL INVESTIGATOR TO SCHOLAR)	3/1	33%
INDEPENDENT ESTABLISHMENT	8/1	13%
SENIOR SCHOLAR (NEW)	7/4	57%
SENIOR SCHOLAR (SCHOLAR TO SENIOR SCHOLAR)	8/7	88%
SCIENTIST (NEW)	5/3	60%
SCIENTIST (SENIOR SCHOLAR TO SCIENTIST)	10/5	50%
SCIENTIST (RENEWAL)	6/6	100%
POPULATION HEALTH INVESTIGATOR (NEW)	12/6	50%
HEALTH RESEARCH SCHOLAR	6/3	50%
HEALTH RESEARCH SENIOR SCHOLAR	2/2	100%
CLINICAL FELLOWS	17/10	59%
FELLOWS	105/28	27%
STUDENTS	307/90	29%
PART-TIME STUDENTS	1/1	100%
MAJOR EQUIPMENT	74/36	49%
HEALTH RESEARCH FUND	45/24	53%
MENTAL HEALTH STUDENTS	21/5	24%
SUMMER STUDENTS	366/181	49%
<b>TOTALS</b>	<b>1047/438</b>	<b>42%</b>

"Trainee applications/awards include Biomedical, MD/Ph.D. and Health Research."

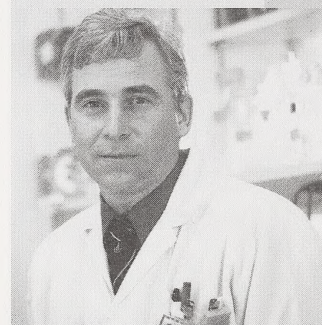
For its senior personnel awards competitions and for the Health Research Fund, AHFMR received 584 external reviews of applications which were considered by 60 members of 6 review committees who advised the Foundation on these programs.

Applications for Trainee awards were considered by 30 members of 4 review committees.

### FUNDING DETAILS OF THE TECHNOLOGY COMMERCIALIZATION PROGRAM

*In 2000-2001 funding was provided in six areas: Diagnostics, Drugs, Health Informatics, Internship/Training, Medical Devices, and Medical Research Technologies for a total of \$1,003,908.*

	2000-2001	
Technology Commercialization Program	32/18	56%



Edmonton surgeon **Dr. Ronald Moore** is treating bladder cancer with a new cancer-fighting technology called photodynamic therapy (PDT). The minimally invasive technique targets cancer cells with light-activated photosensitizer drugs that identify and then zap tumours. Dr. Moore is currently working to reduce the side effects of the treatment.



# FINANCIAL SUMMARY



Ph.D. student and Dr. Lionel E. McLeod Health Research Scholarship winner **Elaine Corbett** is exploring how changes in calcium or nucleotide levels in cells affect the way calreticulin works. One of this protein's main functions is guiding other proteins to take their correct shape so they can perform their specific function in the cell.

## CONSOLIDATED STATEMENT OF FINANCIAL POSITION

*For the year ended March 31, 2001*  
*(Thousands of Dollars)*

	2001	2000
<b>ASSETS</b>		
CASH	\$6,135	\$3,593
RESTRICTED CASH	1,688	2,581
ACCOUNTS RECEIVABLE	142	26
ADVANCES AND PREPAID EXPENSES	100	60
CAPITAL ASSETS	501	447
	<b>\$8,566</b>	<b>\$6,707</b>

## LIABILITIES AND NET ASSETS

ACCOUNTS PAYABLES AND ACCRUED LIABILITIES	\$2,547	\$1,785
ACCRUED RETIREMENT ALLOWANCE	267	221
ACCRUED BENEFIT LIABILITY (ASSET)	36	(53)
DEFERRED LEASE INDUCEMENT	3	21
DEFERRED CONTRIBUTIONS	5,242	4,867
	<b>8,095</b>	<b>6,841</b>
NET ASSETS (LIABILITIES)	471	(134)
	<b>\$8,566</b>	<b>\$6,707</b>



# CONSOLIDATED STATEMENT OF REVENUE AND EXPENSE

*For the year ended March 31, 2001 (Thousands of Dollars)*

	2001	2000
<b>REVENUES</b>		
TRANSFERS FROM ENDOWMENT FUND	\$49,000	\$39,500
AMORTIZATION OF DEFERRED CONTRIBUTIONS	3,817	4,039
DONATIONS	1	1
INTEREST	444	283
RECOVERIES ON TECHNOLOGY COMMERCIALIZATION	157	15
OTHER	-	1
	53,419	43,839
<b>EXPENSES</b>		
GRANTS AND AWARDS		
PERSONNEL	28,277	23,159
TRAINING	6,668	6,809
TECHNOLOGY COMMERCIALIZATION	992	920
APPLIED HEALTH RESEARCH	1,253	1,556
OTHER	10,426	8,390
	47,616	40,834
PROGRAM DELIVERY		
SEARCH PROGRAM	387	203
HYRS PROGRAM	50	24
TECHNOLOGY COMMERCIALIZATION	132	139
HEALTH TECHNOLOGY ASSESSMENT	199	177
	768	543
PROGRAM OPERATIONS		
PEER REVIEW	691	679
HUMAN RESOURCES	2,187	1,888
COMMUNICATION AND EDUCATION	319	304
APPLIED HEALTH RESEARCH	190	116
	3,387	2,987
ADMINISTRATION		
OFFICE SERVICES	503	515
INFORMATION SERVICES	152	115
GOVERNANCE AND PLANNING	206	236
AMORTIZATION OF CAPITAL ASSETS	182	182
	1,043	1,048
	52,814	45,412
EXCESS (DEFICIENCY) OF REVENUE OVER EXPENSES	\$ 605	\$ (1,573)



**Dr. Cameron Wild** is hitting city streets to talk to injection drug users about their habit, their health, and the high-risk behaviours they may be practicing in order to get high. The goal of the two-year Health Research Fund project is to find new ways of improving the health of injection drug users.





## *Programs and Financial\* Highlights 2000/2001*

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for Medical Research

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T5J 4A7

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E-MAIL: [postmaster@ahfmr.ab.ca](mailto:postmaster@ahfmr.ab.ca)

WEB SITE: <http://www.ahfmr.ab.ca>



# A H F M R

\*Full consolidated financial statements are available from AHFMR. Please call us at (780) 423-5727, or e-mail us at [postmaster@ahfmr.ab.ca](mailto:postmaster@ahfmr.ab.ca), or write us at: AHFMR, Suite 1500, 10104-103 Avenue, Edmonton, Alberta, T5J 4A7, for a copy mailed to you free of charge.

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# A H F M R

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ALBERTA HERITAGE FOUNDATION  
FOR MEDICAL RESEARCH

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